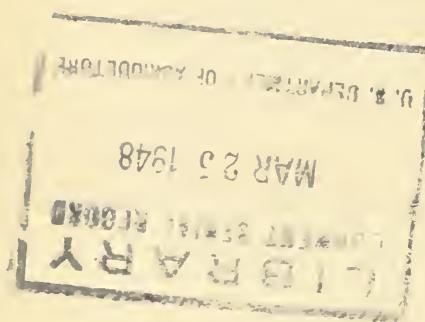


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\* ESTIMATES OF DAMAGE TO CORN BY THE EUROPEAN CORN BORER  
IN THE UNITED STATES IN 1947

By E. W. Beck  
Division of Cereal and Forage Insect Investigations

It is estimated that the European corn borer (Pyrausta nubilalis (Hbn.)) caused a loss of \$96,770,791 in the United States in 1947. The loss occurred in a corn crop valued at about \$3,313,000,000. Of the total loss, \$3,238,495 was in sweet corn and \$93,532,296 in corn grown for grain.

In 1947 the Bureau of Entomology and Plant Quarantine and various State agencies cooperated in determining the abundance of the corn borer in 532 counties in 22 States. The data accumulated were utilized to estimate the loss caused by the corn borer in 806 counties to which the survey data may be applied. An additional 239 counties are known to be infested. In most of these counties the loss is negligible, or insufficient data are available for a reasonably accurate estimate to be made for them. The established indices of loss of 3, 5, and 8 percent per borer per plant in corn grown for grain, sweet corn for canning, and in market sweet corn were utilized in computing losses. In table 1 the losses on sweet corn grown for canning and for market are combined. Crop production and values were obtained by utilizing the latest statistics available, or the 1945 census figures, and prices reported by the Bureau of Agricultural Economics and various public markets. Prices for corn were those reported as of December 15, 1947, in Agricultural Prices, published by the Bureau of Agricultural Economics.

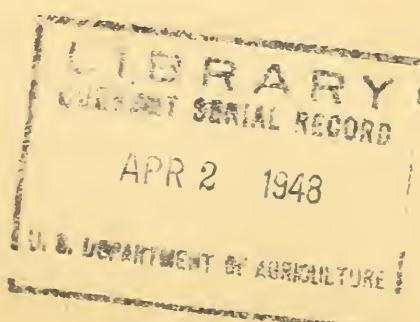


Table 1.—Estimates of damage by the European corn borer to corn harvested for grain and to sweet corn in the United States in 1947

Counties Known to be infested	Corn harvested for grain			Sweet corn		
	State	Included in estimated	Estimated corn production	Estimated value of crop	Estimated loss of crop value	Estimated value of crop
		Number	Fu shels	Dollars	Dollars	Dollars
Connecticut	6	8	347,779	973,781	6,265	1,374,480
Delaware	3	3	3,520,994	7,605,347	205,149	695,438
Illinois	9 <sup>c</sup>	82	320,468,376	785,148,256	31,172,635	6,204,219
Indiana	9 <sup>c</sup>	92	190,478,400	440,005,194	7,244,658	4,835,434
Iowa	9 <sup>c</sup>	99	308,587,924	783,813,327	29,169,648	1,552,465
Kansas	11	0	-	-	-	-
Kentucky	73	15	9,258,746	20,091,479	453,047	312,616
Maine	15	12	69,638	194,986	5,112	1,572,324
Maryland	2 <sup>c</sup>	22	15,904,495	34,671,799	1,717,988	3,698,604
Massachusetts	11	14	210,288	588,806	2,837	1,818,306
Michigan	49	34	28,371,525	69,793,951	1,205,240	1,503,144
Minnesota	7 <sup>c</sup>	55	178,869,983	411,400,961	13,684,929	2,978,122
Missouri	40	40	70,111,266	175,979,278	407,007	330,026
Nebraska	0	0	-	-	-	-
New Hampshire	9	9	128,805	369,654	6,818	453,200
New Jersey	21	7,423,340	18,929,517	241,864	2,710,800	14,180
New York	60	58	4,865,106	11,968,161	169,226	7,040,411
North Carolina	15	13	1,244,886	2,614,261	25,108	84,672
North Dakota	3	0	-	-	-	-
Ohio	87	87	138,379,020	318,271,746	3,001,040	2,530,224
Pennsylvania	67	67	37,578,593	87,558,122	2,109,131	7,046,984
Rhode Island	5	5	37,064	103,779	2,393	320,896
South Dakota	0	0	-	-	-	-
Tennessee	4	0	-	-	-	-
Vermont	14	11	136,013	380,836	7,255	152,584
Virginia	49	13	7,665,401	17,093,844	722,713	343,778
Wisconsin	71	56	55,845,238	126,210,238	1,972,233	3,045,740
West Virginia	14	0	-	-	-	-
Total	1045	806	1,379,503,180	3,313,758,233	93,532,296	50,604,467
						3,238,495
						96,770,791